

Fig 1

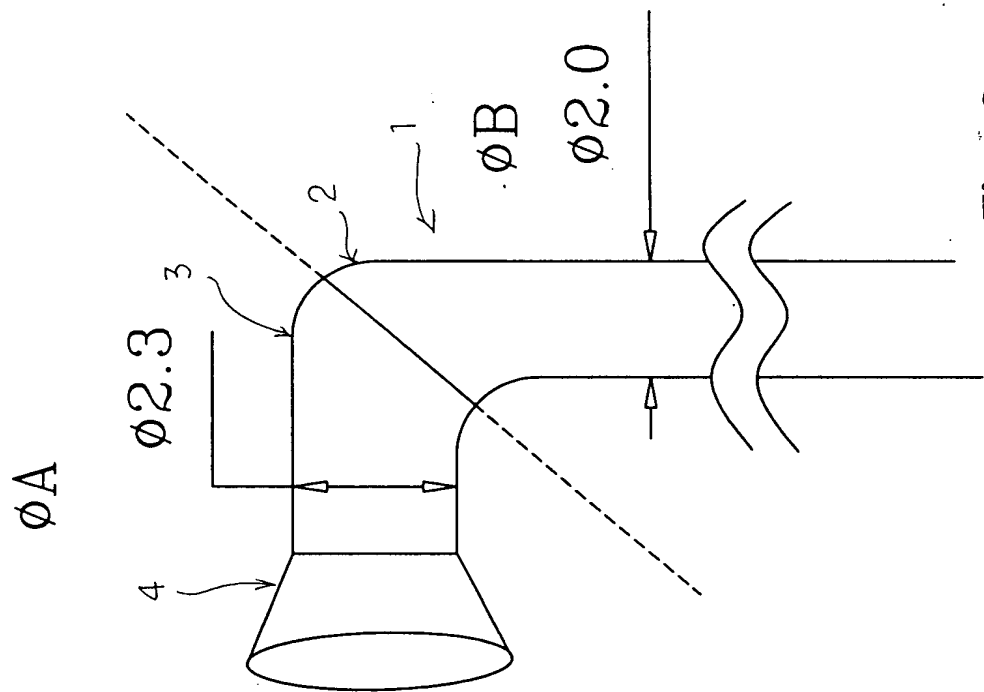


Fig 2

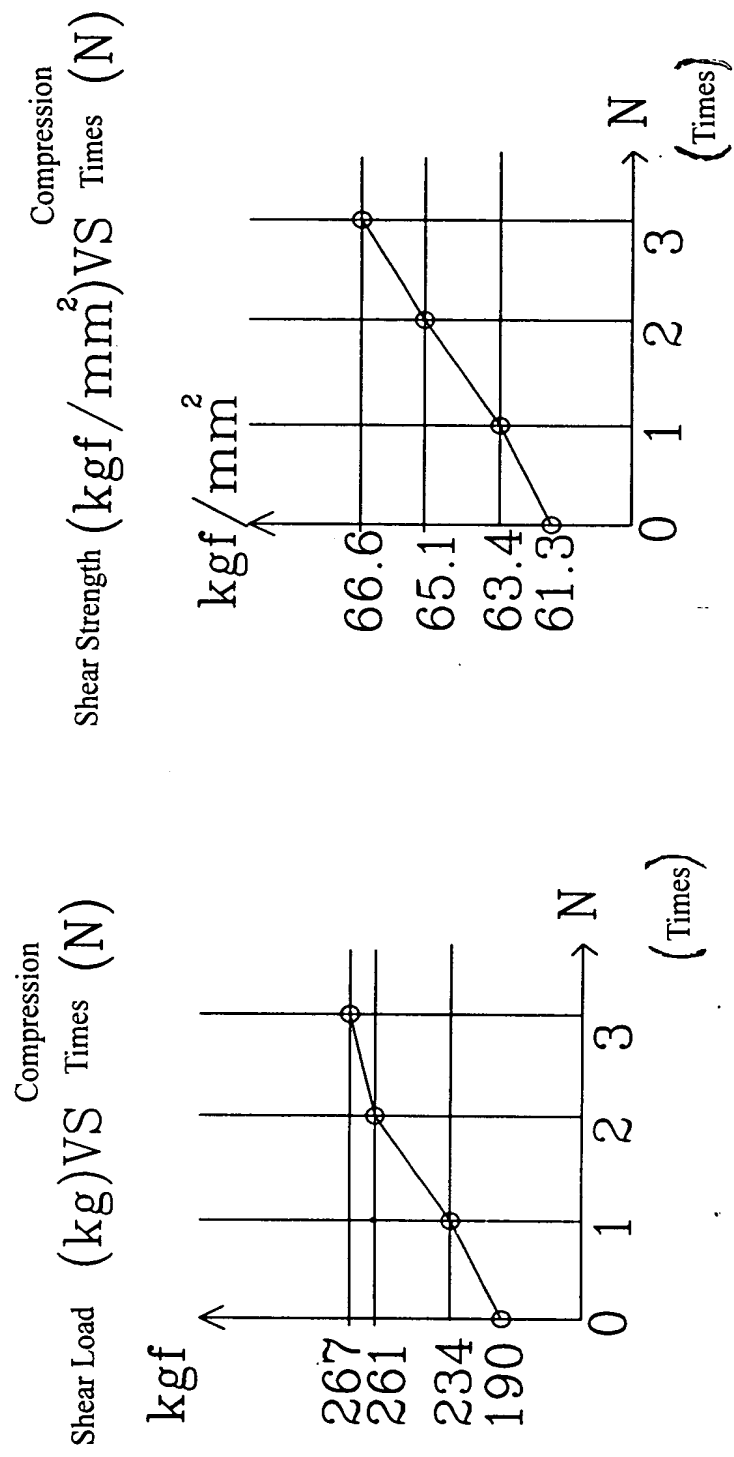
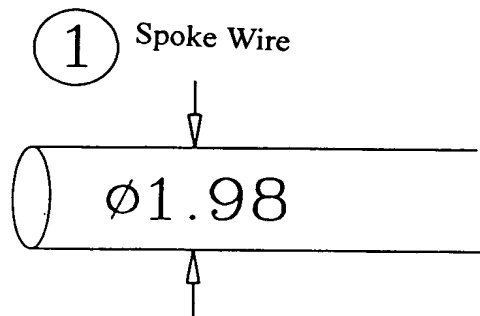
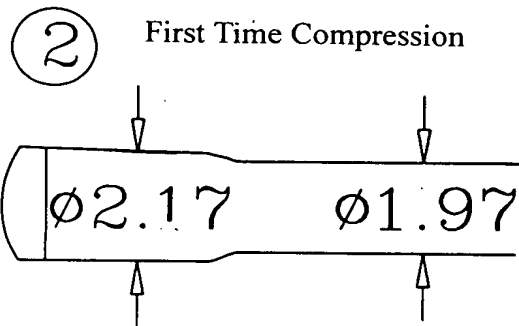


Fig 3

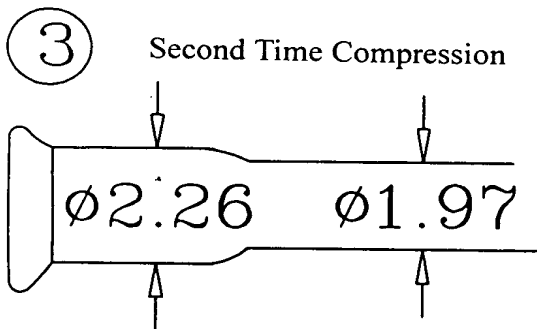


Result of Experiment
Shear Strength (Average)

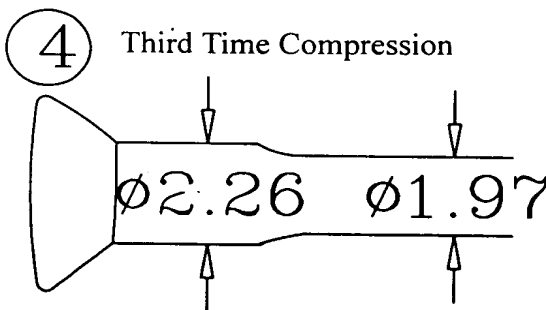
$$\Rightarrow 61.30 \text{ kgf/mm}^2$$



$$\Rightarrow 63.40 \text{ kgf/mm}^2$$



$$\Rightarrow 65.10 \text{ kgf/mm}^2$$



$$\Rightarrow 66.60 \text{ kgf/mm}^2$$

Fig 4

Table 1: Comparison in all kinds of Spokes (Tension, Weight, Cost)
(Based upon the same material)

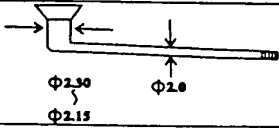
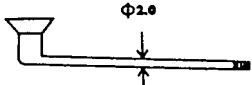
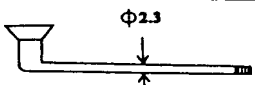
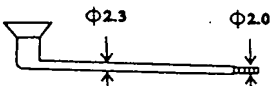
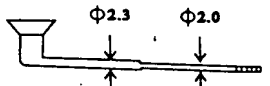
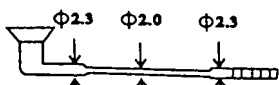
Type	Charts	Pulling Strength	Weight	Cost
Reformed spoke		A High brake point	A Lightest	A Lowercost
Plain spoke		C	A	A ⁺
Plain spoke		A ⁺	D	B
Swaged thread spoke		A	C	C
Swaged spoke		A	B ⁺	D
Double Butted spoke		A	B	D

Table 2

TEST SAMPLE	Shear Area	Shear Load	Shear Strenth
	mm ²	Kgf	Kgf/mm ²
Reformed Spoke/Wire	3.1	190.1	61.3
Reformed Spoke/First Comporession	3.7	234.7	63.4
Reformed Spoke/Second Comporession	4.0	261.2	65.1
Reformed Spoke/Third Comporession	4.0	267.1	66.6